

BODEGA HEAD NATURE TRAIL					
Sonoma Coast State Beach					
Mitigation Monitoring and Reporting Plan					
2006					
Mitigation Measure	Timing of Action	Responsible for Implementing Mitigations	Responsible for Mitigation Oversight	Verification and Implementation	
				Date Completed	Status / Comments
Biological Resources					
To lessen the potential for nest disturbance of northern harriers, prior to construction, a qualified State Park ecologist shall instruct the work crews on how to identify harriers and their nesting behavior. If nesting behavior is observed during any construction activity, the crews shall immediately stop work in the area of disturbance and notify a Senior or Associate State Park Resource Ecologist.	Construction Phase	DPR Construction Crew	Project Manager, Environmental Scientist, Construction Supervisor and/or Park Staff		
Avoid impacts to high quality coastal prairie community by adjusting trail alignments to pass through areas with a high density of exotic species ( <i>Brassica rapa</i> , <i>Raphanus sativus</i> ) to the greatest extent possible, rather than through an area with high density of native species ( <i>Iris douglasii</i> , <i>Bromus carinatus</i> , <i>Erigeron glaucaus</i> ).	Pre-Construction Phase	DPR Construction Crew	Project Manager, Environmental Scientist, Construction Supervisor and/or Park Staff		
Minimize soil excavation, erosion, and soil migration both off and on-site during and after trail construction.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor and/or Park Staff		
Monitor for the establishment of new populations of invasive plant species for a three year period. Monitoring will consist of semiannual inspections. Any new invasive, exotic species populations identified within the project area shall be removed or controlled by methods deemed appropriate by the District Environmental Scientist.	Post Construction	Project Manager, DPR Environmental Scientist, DPR Construction Crew	Project Manager, Environmental Scientist, Construction Supervisor and/or Park Staff		
Avoid impacts to native swamp thistle ( <i>Cirsium douglasii</i> ) population at north eastern end of proposed new trail alignment by placing the trail alignment to pass through areas with high density of exotic species ( <i>Brassica rapa</i> , <i>Raphanus sativus</i> ).	Pre- Construction	DPR Construction Crew	Project Manager, Environmental Scientist, Construction Supervisor		
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Cultural Resources					
In the event that previously undocumented cultural resources are encountered during the project construction (including but not limited to dark soil containing shellfish, bone, flaked stone, ground stone, or deposits of historic trash), work in the immediate vicinity of the find would be temporarily halted or diverted until a DPR-qualified cultural resource specialist has evaluated the find and implement appropriate treatment and disposition of the artifact(s). Once any significant cultural resources are found in a project location, a DPR-qualified historian and/or archaeologist (and Native American representative, if appropriate) would monitor any ground-disturbing work in that area from that point forward.	Construction Phase	Project Manager, DPR Archaeologist	Construction Manager, Cultural Resources Project Manager		
<input type="checkbox"/> In the event that human remains are discovered, work will cease immediately in the area of the find and the project manager/site supervisor will notify the appropriate DPR personnel. Any human remains and/or funerary objects will be left in place. The DPR Sector Superintendent (or authorized representative) will notify the County Coroner, in accordance with §7050.5 of the California Health and Safety Code, and the Native American Heritage Commission (NAHC) will be notified within 24 hours of the discovery if the Coroner determines that the remains are Native American. The NAHC will designate the "Most Likely Descendent" (MLD) of the deceased Native American. The MLD will recommend an appropriate disposition of the remains. If a Native American monitor is on-site at the time of the discovery and that person has been designated the MLD by the NAHC, the monitor will make the recommendation of the appropriate disposition.	Construction Phase	Cultural Resources Project Manger, and/or Archaeologist	Construction Manager, Project Manager, Cultural Resources Project Manager		
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Geology and Soils					
Trails shall be constructed such that rainfall runoff is not concentrated in one direction, resulting in potential erosion.	Construction Phase	DPR Construction Crew	Project Manager, Environmental Scientist, Construction Supervisor		
During the construction process, temporary erosion control methods will be used to protect disturbed soils. These include, but are not limited to the following: • Erect silt fencing, as necessary, to prevent excavated soils from entering drainages and spilling down nearby bluffs. Compact all fill materials to stabilize surfaces. • Cover exposed areas of earth with native mulch. • Any stockpiled soils shall be covered in the event of rainfall to prevent runoff.	Construction Phase	DPR Construction Crew	Project Manger, Construction Supervisor		
Rehabilitated sections of existing trails shall be restored to natural contours.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
California State Park trail construction supervisors will monitor trail surfaces for damage or deterioration. Department approved repair and maintenance standards will be employed to correct problems and adjust trail drainage patterns for optimum trail and resource protection.	Post Construction	DPR Construction Crew, DPR Maintenance Crew	Project Manager, Construction Supervisor, Maintenance Supervisor		

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<b>Hazards &amp; Hazardous Materials</b>					
All equipment will be inspected for leaks immediately prior to the start of construction, and regularly inspected thereafter until equipment is removed from the project site.	Pre Construction and Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
A designated staging area will be identified where equipment refueling may occur. A spill kit will be maintained on-site throughout the duration of the project.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
Equipment will be cleaned and repaired (excepting emergency repairs) in the maintenance shop, away from the project site. Any contaminated water, sludge, spill residue, or other hazardous compounds will be disposed of outside park boundaries at a lawfully permitted or authorized destination.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
When power equipment is being used in construction, the public will be temporarily routed away from the subject location.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
Spark arrestors will be required for all motorized equipment.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
Construction crews will be required to park vehicles away from flammable material such as dry grasses and brush.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
Park staff will be required to have a State Park radio on site, which allows direct contact to a centralized dispatch or Sonoma County Fire Department. Fire suppression equipment is available on park grounds.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
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<b>Noise</b>					
Construction activities would be limited to daylight hours and a Monday through Friday work week.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
Motorized equipment used on the project site would be equipped with a muffler of a type recommend by the manufacturer.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		
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<b>Public Safety</b>					
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<b>Transportation/Traffic</b>					
The appropriate pedestrian crossing signs will be posted in accordance to the State Parks Standards and guidelines set by CalTrans for the type of intersection in question.	Construction Phase	DPR Construction Crew	Project Manager, Construction Supervisor		